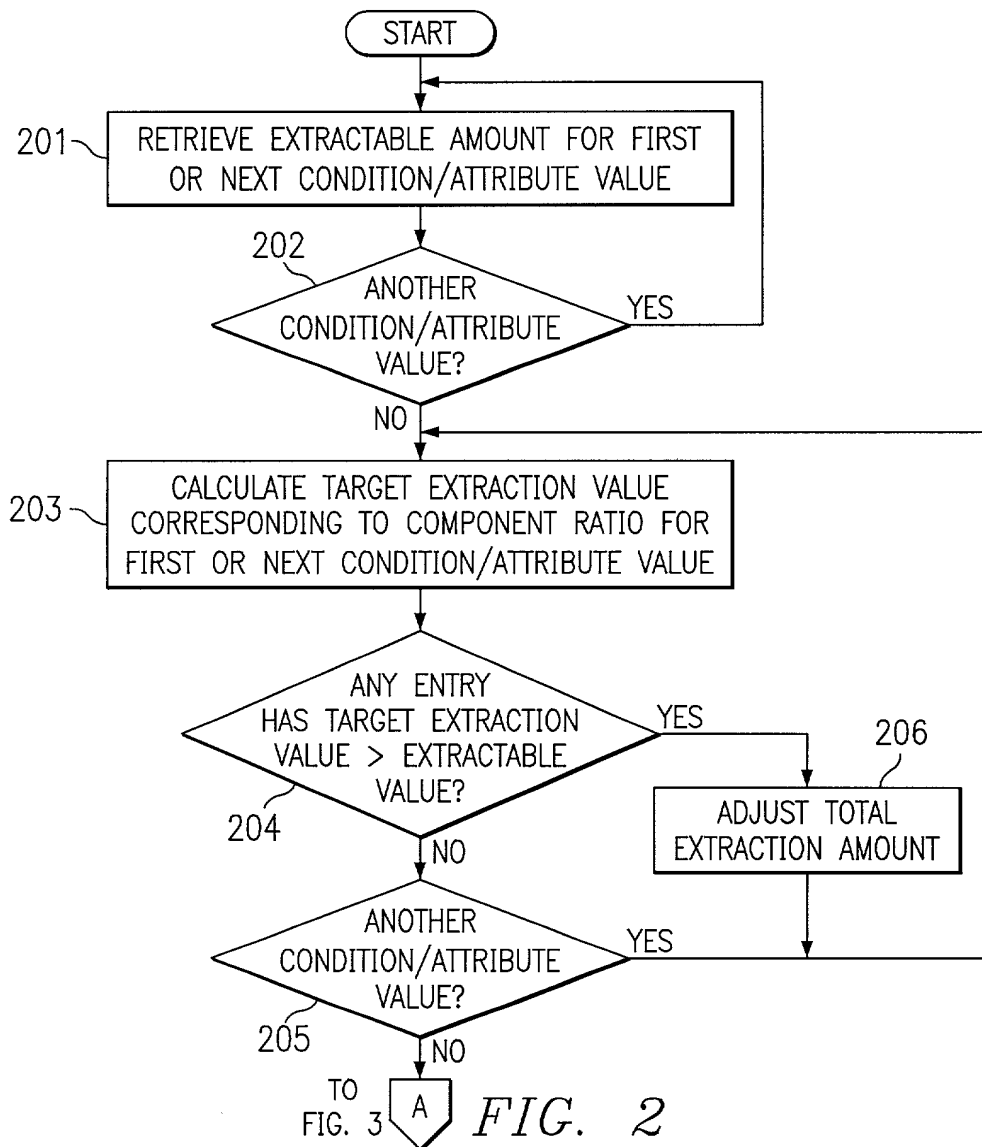
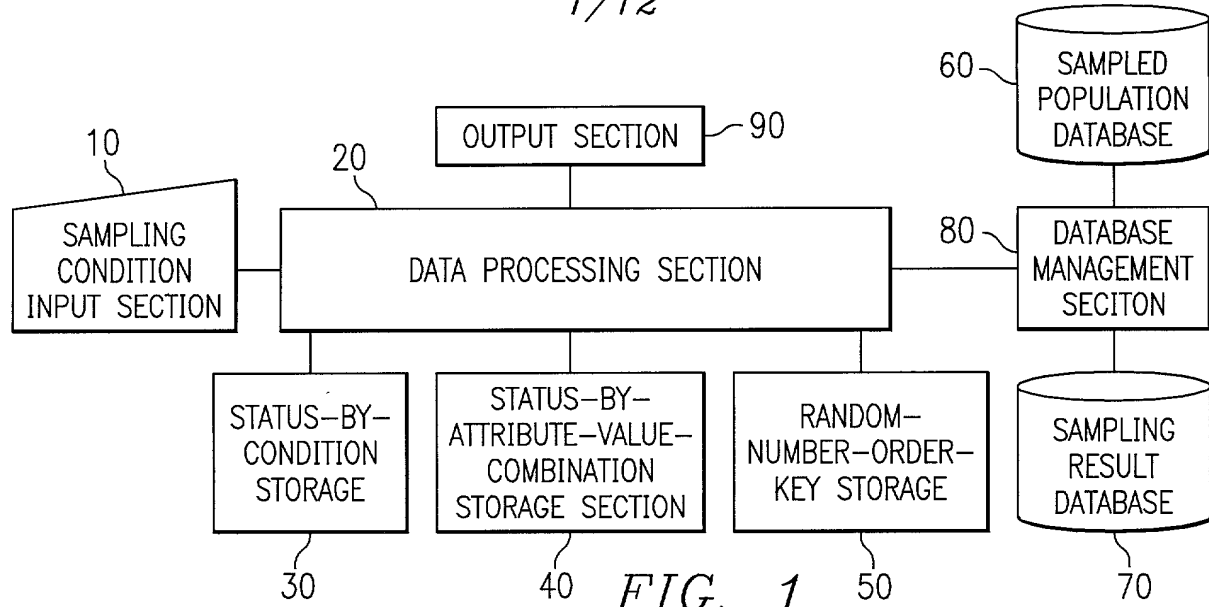


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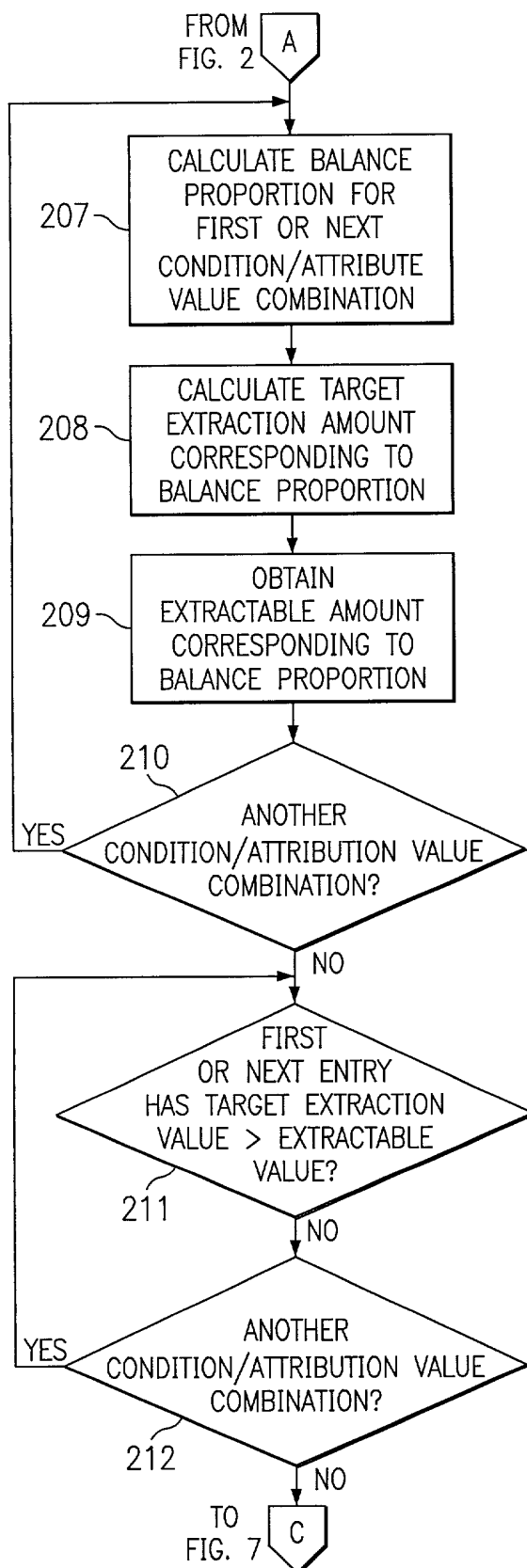


FIG. 3

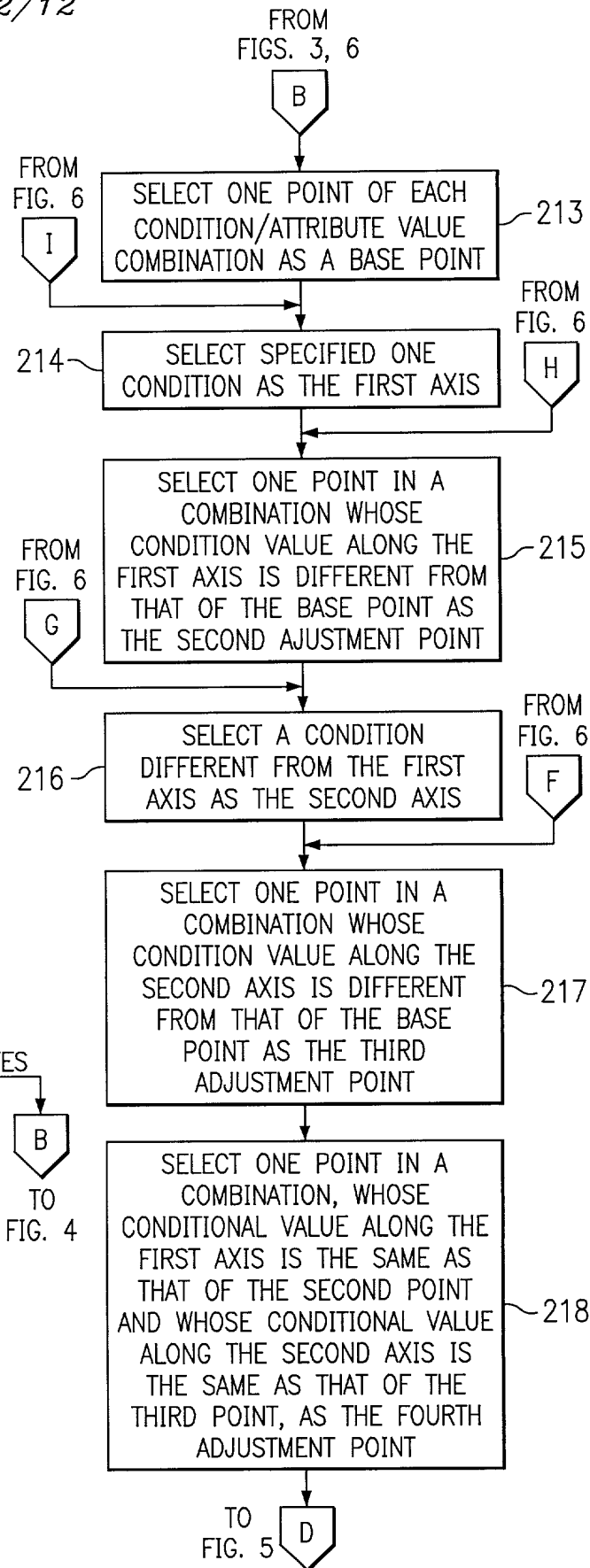


FIG. 4

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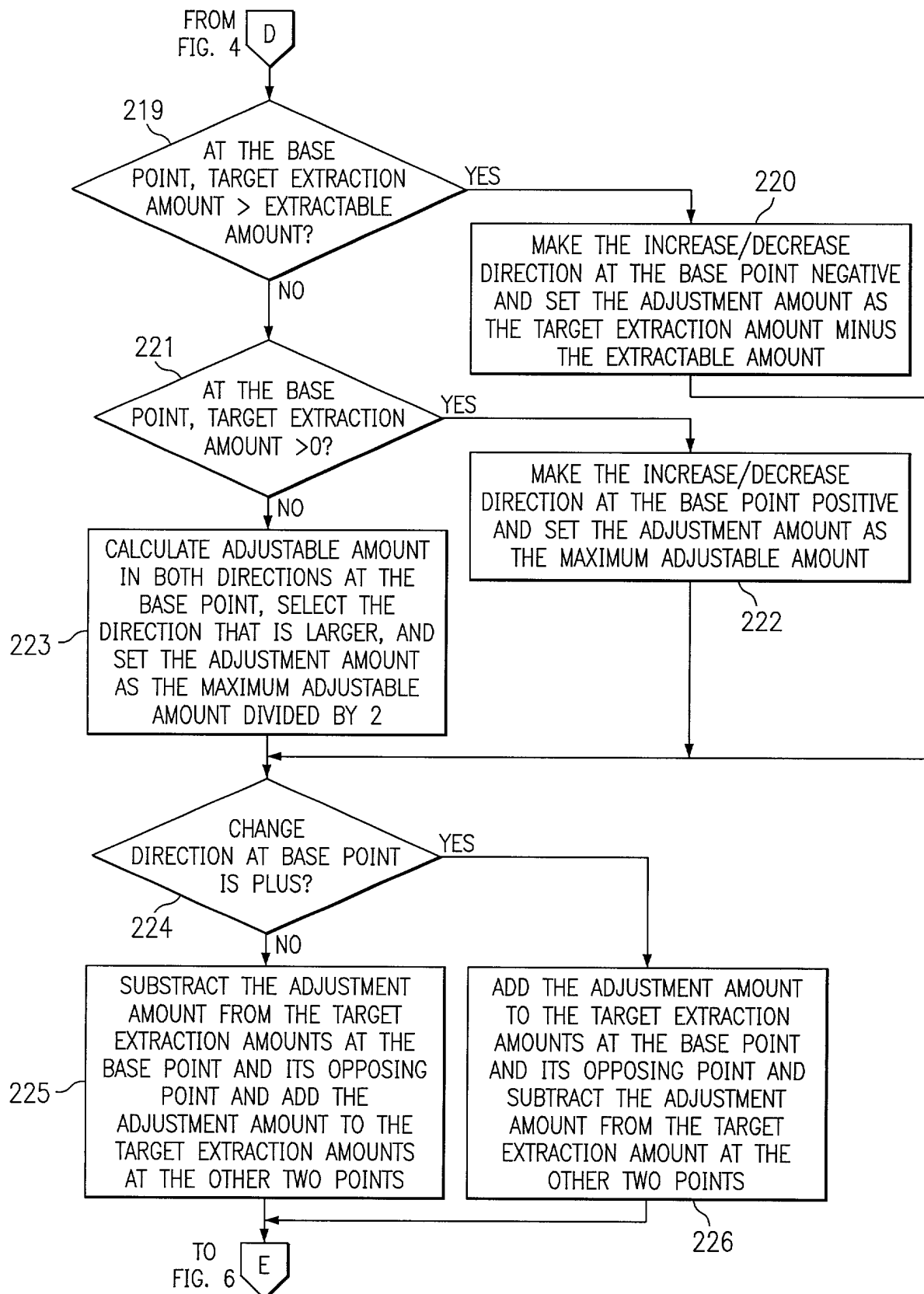


FIG. 5

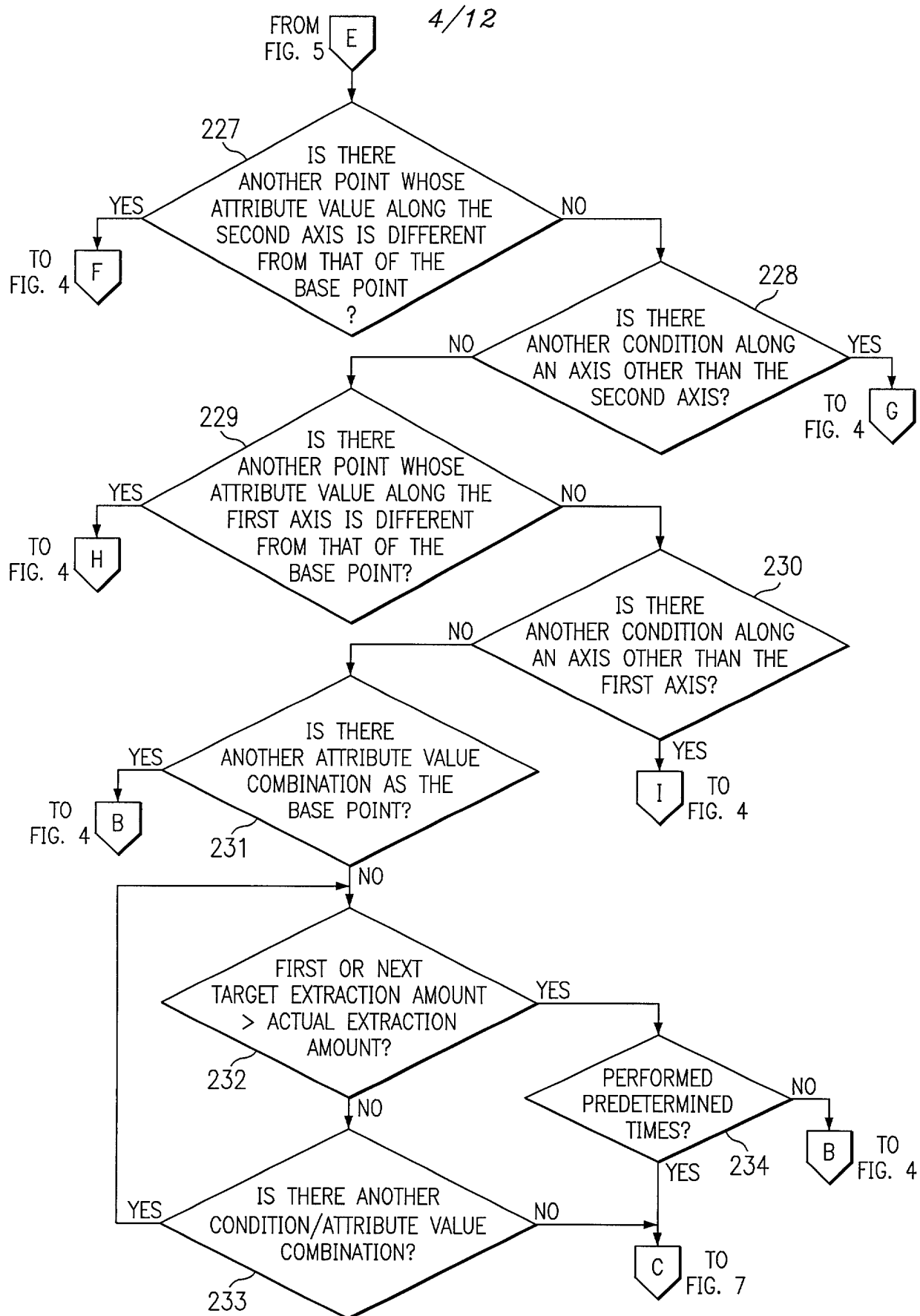


FIG. 6

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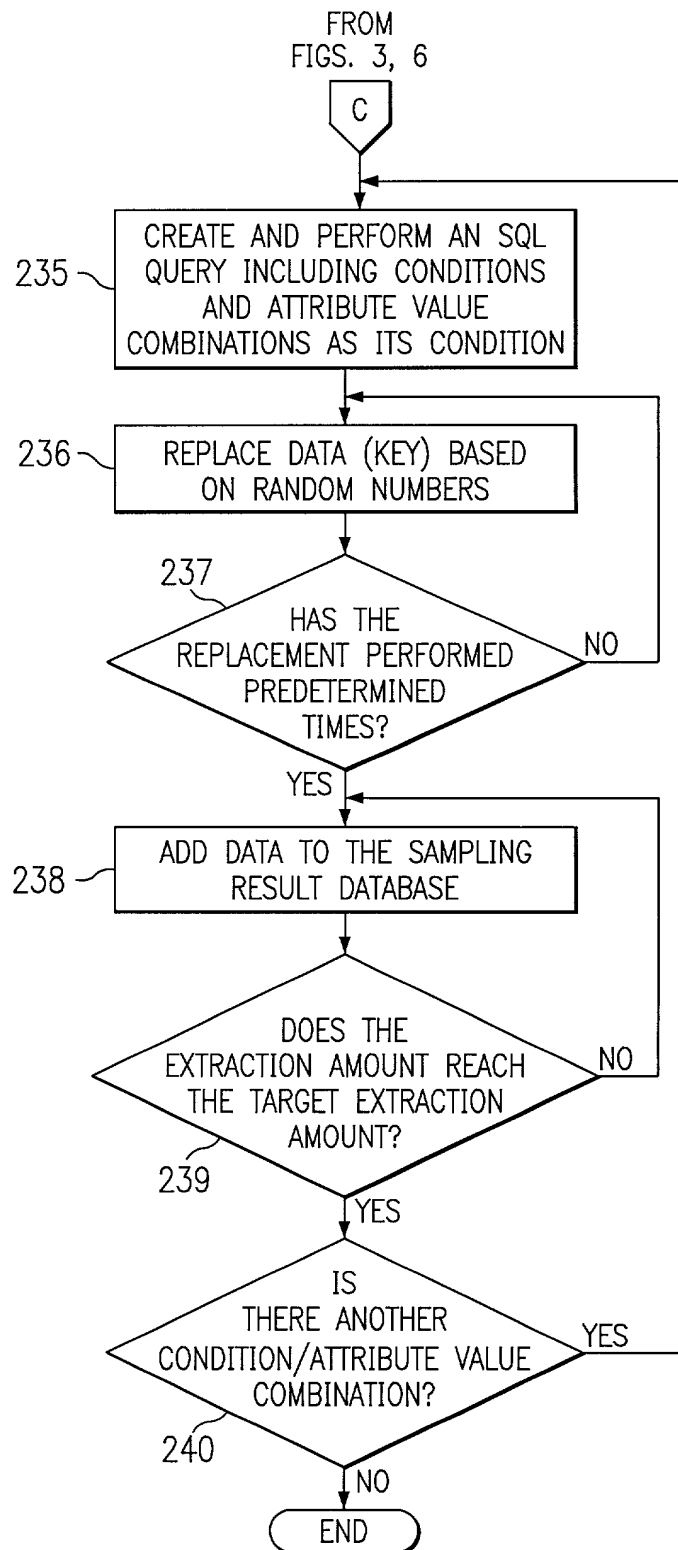


FIG. 7

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TOTAL EXTRACTION AMOUNT		1000			
COMPOSITION CONDITION FIELD	A	COMPOSITION CONDITION FIELD	B	COMPOSITION CONDITION FIELD	C
ATTRIBUTE VALUE	COMPONENT RATIO	ATTRIBUTE VALUE	COMPONENT RATIO	ATTRIBUTE VALUE	COMPONENT RATIO
A1	40%	B1	20%	C1	50%
A2	60%	B2	30%	C2	50%
		B3	50%		

FIG. 8

TOTAL EXTRACTION AMOUNT		1000	
COMPOSITION CONDITION FIELD	A		
ATTRIBUTE VALUE	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT	
A1	400	5000	
A2	600	5000	
COMPOSITION CONDITION FIELD	B		
ATTRIBUTE VALUE	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT	
B1	200	600	
B2	300	9000	
B3	500	400	
COMPOSITION CONDITION FIELD	C		
ATTRIBUTE VALUE	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT	
C1	500	9700	
C2	500	300	

FIG. 9

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TOTAL EXTRACTION AMOUNT		600
COMPOSITION CONDITION FIELD	A	
ATTRIBUTE VALUE	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT
A1	240	5000
A2	360	5000
COMPOSITION CONDITION FIELD	B	
ATTRIBUTE VALUE	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT
B1	120	600
B2	180	9000
B3	300	400
COMPOSITION CONDITION FIELD	C	
ATTRIBUTE VALUE	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT
C1	300	9700
C2	300	300

FIG. 10

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TOTAL EXTRACTION AMOUNT			600		
ATTRIBUTE VALUE COMBINATION			BALANCE PROPORTION	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT
A	B	C			
A1	B1	C1	4%	24	500
A1	B1	C2	4%	24	0
A1	B2	C1	6%	36	4500
A1	B2	C2	6%	36	0
A1	B3	C1	10%	60	0
A1	B3	C2	10%	60	0
A2	B1	C1	6%	36	100
A2	B1	C2	6%	36	0
A2	B2	C1	9%	54	4500
A2	B2	C2	9%	54	0
A2	B3	C1	15%	90	100
A2	B3	C2	15%	90	300

FIG. 11

$\alpha \backslash \beta$			AMOUNT
	$\beta 1$	$\beta 2$	
$\alpha 1$	16	24	40
$\alpha 2$	12	18	30
$\alpha 3$	12	18	30
AMOUNT	40	60	100

FIG. 12A

$\alpha \backslash \beta$			AMOUNT
	$\beta 1$	$\beta 2$	
$\alpha 1$	18	22	40
$\alpha 2$	10	20	30
$\alpha 3$	12	18	30
AMOUNT	40	60	100

FIG. 12B

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A1	C1		C2	
	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT
B1	24	500	24	0
B2	36	4500	36	0
B3	60	0	60	0
A2	C1		C2	
	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT
B1	36	100	36	0
B2	54	4500	54	0
B3	90	100	90	300

FIG. 13

A1	C1		C2	
	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT
B1	24	500	24	0
B2	36	4500	36	0
B3	60	0	60	0
A2	C1		C2	
	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT
B1	72	100	0	0
B2	54	4500	54	0
B3	54	100	126	300

FIG. 14

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A1	C1		C2	
	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT
B1	24	500	24	0
B2	36	4500	36	0
B3	60	0	60	0
A2	C1		C2	
	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT
B1	72	100	0	0
B2	108	4500	0	0
B3	0	100	180	300

FIG. 15

A1	C1		C2	
	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT
B1	24	500	24	0
B2	96	4500	36	0
B3	0	0	60	0
A2	C1		C2	
	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT
B1	72	100	0	0
B2	48	4500	0	0
B3	60	100	180	300

FIG. 16

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TOTAL EXTRACTION AMOUNT			600			
ATTRIBUTE VALUE COMBINATION			BALANCE PROPORTION	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT	TARGET EXTRACTION AMOUNT AFTER ADJUSTMENT
A	B	C				
A1	B1	C1	4%	24	500	24
A1	B1	C2	4%	24	0	24
A1	B2	C1	6%	36	4500	96
A1	B2	C2	6%	36	0	36
A1	B3	C1	10%	60	0	0
A1	B3	C2	10%	60	0	60
A2	B1	C1	6%	36	100	72
A2	B1	C2	6%	36	0	0
A2	B2	C1	9%	54	4500	108
A2	B2	C2	9%	54	0	0
A2	B3	C1	15%	90	100	0
A2	B3	C2	15%	90	300	180

FIG. 17

A1	C1		C2	
	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT
B1	60	500	0	0
B2	180	4500	0	0
B3	0	0	0	0
A2	C1		C2	
	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT
B1	60	100	0	0
B2	0	4500	0	0
B3	0	100	300	300

FIG. 18

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TOTAL EXTRACTION AMOUNT			600			
ATTRIBUTE VALUE COMBINATION			BALANCE PROPORTION	TARGET EXTRACTION AMOUNT	EXTRACTABLE AMOUNT	TARGET EXTRACTION AMOUNT AFTER ADJUSTMENT
A	B	C				
A1	B1	C1	4%	24	500	60
A1	B1	C2	4%	24	0	0
A1	B2	C1	6%	36	4500	180
A1	B2	C2	6%	36	0	0
A1	B3	C1	10%	60	0	0
A1	B3	C2	10%	60	0	0
A2	B1	C1	6%	36	100	60
A2	B1	C2	6%	36	0	0
A2	B2	C1	9%	54	4500	0
A2	B2	C2	9%	54	0	0
A2	B3	C1	15%	90	100	0
A2	B3	C2	15%	90	300	300

FIG. 19

KEY	EXTRACTION AMOUNT
11111	12
22222	5
33333	10
44444	3
55555	6
66666	2
77777	4
88888	18
99999	5

FIG. 20

KEY	EXTRACTION AMOUNT
77777	4
44444	3
99999	5
11111	12
33333	10
22222	5
66666	2
88888	18
55555	6

FIG. 21